

BUB/CTE/2014-15

DATE: 27-12-2014

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)

{Project*: Improvements to CC roads and drains and providing covering slab at
Vinayakanagara cross roads in ward No 11 (kuvempunagara)}

Ref. : Letter No. Testing/BUB/2014-15, dated 26-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.S.Venkateshappa , Contractor, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	29-11-14	26-12-14	28	22500	520	22.88	22.80
	002	"	"	"	"	510	22.66	
	003	"	"	"	"	520	22.88	

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2014-15

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

Date: 20-11-2014

{Project*: Improvements to CC roads and drains and providing covering slab at
Vinayakanagara cross roads in ward No 11 (kuvempunagara)}

Ref. : Letter No. Testing/BUB/2014-15, dated 17-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.S.Venkateshappa , Contractor, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	The Sample Conforms to Grading Zone-II
04.75	98.00	90-100	90-100	90-100	
02.36	86.20	60-95	75-100	85-100	
01.18	75.00	30-70	55-90	75-100	
600. mic	48.00	15-34	35-59	60-79	
300.mic	20.00	5-20	8-30	12-40	
150.mic	3.00	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.43 %	Not more than 8%
2.	Specific Gravity	----	2.55	-----

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BUB/CTE/2014-15

1. TESTING OF COARSE AGGREGATES (40 mm):

Sub: Testing of Coarse Aggregates.

Date: 20-11-2014

{Project*: Improvements to CC roads and drains and providing covering slab at Vinayakanagara cross roads in ward No 11 (kuvempunagara)}

Ref. : Letter No. Testing/BUB/2014-15, dated 17-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.S.Venkateshappa , Contractor, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing 40 mm Sample	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	Graded
40mm	97.20	85-100	95 - 100
20mm	65.30	0 -20	30- 70
10mm	23.00	0 -5	10- 35
4.75mm	Nil	-----	0 - 5

TABLE 1.2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	16.40 %	Not to exceed 25 %
2.	Crushing value	-----	25.30%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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BUB/CTE/2014-15

1. TEST REPORT ON CEMENT:

Date: 26-11-2014

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to CC roads and drains and providing covering slab at Vinayakanagara cross roads in ward No 11 (kuvempunagara)}

Ref. : Letter No. Testing/BUB/2014-15, dated 17-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranya Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.S.Venkateshappa , Contractor, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand* : Birla
Grade * : 53
Type * : OPC
Date : 18-11-2014 to 25-11-2014

SL No	Name of Test	Results	Requirements as per IS 12269-1987
		Cement Sample	
1	Initial setting time	155min	Shall not be less than 30 min
2	Final setting time	265min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.80 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.80 mm	Shall not be more than 10 mm
5	Compressive strength		
	a) 3 days (average of three results) b) 7 days (average of three results)	29.10 N/ Sq mm 41.20 N/Sq mm	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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BUB/CTE/2014-15/

DATE: 29-12-2014

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)

{Project*: Improvement to CC roads drains and covering slab at Vinayakanagar cross roads in ward No.11 (Kuvempurnagar)}

Ref.: Letter No. Testing/BUB/2014-15 dated 27-12-2014

Sample supplied to lab by: Sri.S.Venkaeshappa, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

Location : Concrete Concrete.

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	29-11-14	27-12-14	28	22500	540	24.00	23.33
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	510	22.66	
2	004	"	"	"	"	485	21.55	21.55
	005	"	"	"	"	490	21.77	
	006	"	"	"	"	480	21.33	
3	007	"	"	"	"	530	23.55	23.10
	008	"	"	"	"	510	22.66	
	009	"	"	"	"	520	23.11	
4	010	"	"	"	"	530	23.33	23.40
	011	"	"	"	"	515	22.88	
	012	"	"	"	"	540	24.00	

* As furnished by Client.

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